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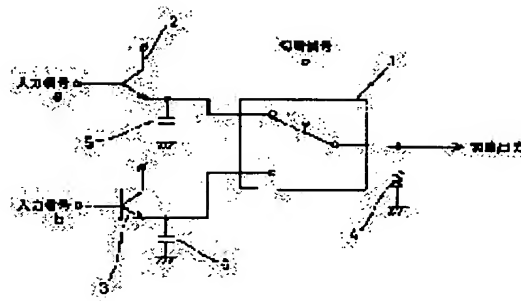
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(54) CROSSTALK ELIMINATION CIRCUIT FOR ANALOG SWITCH

(57)Abstract:

PURPOSE: To suppress the occurrence of a crosstalk in an analog switch by using a grounded-collector transistor(TR) in each input of the analog switch and connecting its emitter resistance to the stitching output of the analog switch.

CONSTITUTION: When an analog switch 1 selects the signal of an input TR 2, an emitter resistance 4 is connected to the TR 2 through the switch 1, and the signal of the TR 2 appears in the output. At this time, an input TR 3 is cut off because the emitter resistance is not connected. However, a finite impedance exists also on the input side which is not selected by the switch 1, and some signal appears there by this impedance; but it is attenuated by a capacitor 6. When the analog switch 1 selects the signal of a TR 3, the capacitor 6 is set to such value that its influence is insignificant because the impedance of the resistance 4 is low. At this time, the TR 2 which is not selected by the switch 1 is cut off, and the signal is attenuated by a capacitor 5.



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